

VATTENFALL FOR A FOSSIL FREE FUTURE

Analyst meeting Morgan Stanley 2017-09-26



WE EXIST TO...

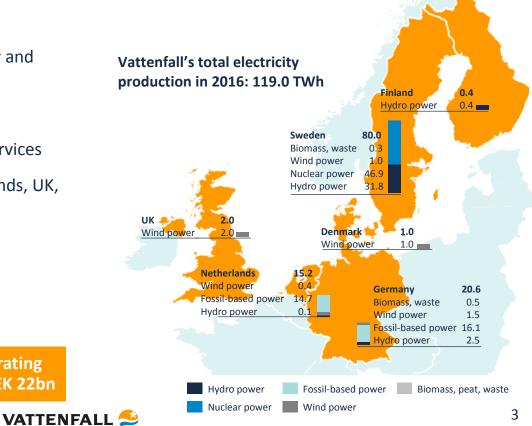


Vattenfall will help customers reduce the need for fossil fuels and enable the next generation to live fossil free. This is the core of Vattenfall's new guiding principle for the future that has now been presented by the Group management.



VATTENFALL AT A GLANCE

- One of Europe's largest producers of electricity and heat
- 100% owned by the Swedish state
- Main products: electricity, heat, gas, energy services
- Main markets are Sweden, Germany, Netherlands, UK, **Denmark and Finland**
- 20,000 employees



Net sales in 2016: SEK 139bn

Underlying operating profit¹ in 2016: SEK 22bn

VATTENFALL AT A GLANCE OUR BUSINESS AREAS





VATTENFALL'S HISTORY

From a domestic Swedish hydro power generator to an European energy company

commercial- Swedis		1996 Deregulatic Swedish en market		1999–2006 Acquisitions in Germany, Denmark and Poland	Acquisitions inVattenfall acquiresNew vision andGermany, DenmarkNuon in theclearer assignment		t	2016 Divestments of lignite operations in Germany
Part of developing the		$\setminus \mathbb{N}$	2000-2009 Major expansion in Europe		New strategic		2016- Towards a fossil-free uture	
1		weden Vatten		fall acquires of HEW	2 008 Lehman Brothers defaults	2011 Germany decides to stop nuclear by 2022	in Belgiun	nts of operations n, Germany, Poland and



THREE EVENTS HAVE IMPROVED OUR RISK PROFILE IN 2016

Events in 2016

- ✓ Lignite divestment reduced exposure to power prices, fossil-based generation and CO_2 .
- ✓ Swedish energy agreement The elimination of the nuclear capacity tax (EBITDA effect of ~SEK 3bn p.a.) and substantial reduction of the real-estate tax for hydro power plants (EBITDA effect of ~SEK 2bn p.a.) are essential for future competitiveness.
- ✓ German nuclear fund- regulatory clarity on the externalisation of liabilities for interim and final storage achieved in 2016 and funds transferred to the state in July 2017.

Key focus areas

- Continued safe, reliable and efficient nuclear and hydro power. Focus on operational excellence across the fleet. Continue modernization program in hydro.
- Increase flexibility in the power plants.
- Responsible decommissioning and dismantling of R1 (2020) and R2 (2019) and German nuclear (all German reactors to be closed by 2022).

Highlights 2016

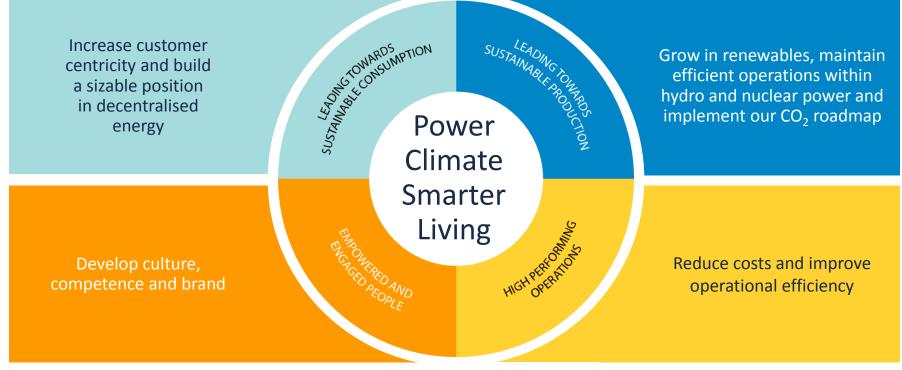








OUR STRATEGIC OBJECTIVES





STRATEGIC TARGETS

Strategic objective	Strategic targets for 2020	Outcome 2016
Leading towards Sustainable Consumption	1 Customer engagement, Net Promotor Score relative (NPS relative): +2	+7
Leading towards Sustainable Production	2 Aggregated commissioned new renewables capacity 2016-2020: ≥ 2,300 MW	297 MW
	 Absolute CO₂ emissions, pro rata, : ≤21 Mt Continuing operations Total Vattenfall (incl. lignite) 	23.2 Mt 67.7 Mt
High Performing Operations	 Return On Capital Employed (ROCE): ≥9% Continuing operations Total Vattenfall 	0.5% -8.5%
Empowered and Engaged People	5 Lost Time Injury Frequency (LTIF): ≤1.25	2.0
	6 Employee Engagement Index: ≥ 70%	57%



WE SEE MANY GROWTH OPPORTUNITIES...



... in Renewables, Distribution, District Heating, Sales, Decentralised Solutions, E-Mobility, and Wholesale Markets



WE KEEP AND DEVELOP...

...our existing plants in nuclear, hydro and gas





OUR CUSTOMER BASE IS GROWING

Customers & Solutions	Heat	Distribution	
 + 70,000 customers in 2016 ✓ Strong Net Promoter Score development ✓ Lowered Cost to Serve ✓ Innovative product launches 	 + 29,000 customers in 2016 ✓ Less than 1% churn ✓ Strong political support ✓ Attractive growth potential with solutions orientation 	 + 20,000 customers in 2016 ✓ High quality focus ✓ Growth driven by urbanization ✓ Deployment of digital grid solutions for improved service, quality and more renewables 	
6,340,000 electricity customers g	2,190,000 2,040,000 as customers heat custome		

VATTENFALL 叁

CORNERSTONES TOWARDS CLIMATE NEUTRALITY

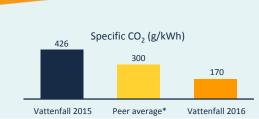
Portfolio transformation Major shift in 2016 following lignite divestment

Continued CO₂ phase out Ongoing initiatives support the targeted ambition

Supporting our partners Enabling partners to reach climate targets

50%

fossil power



Climate neutrality 2050 Climate neutrality Nordic 2030

- ✓ Phase out of coal, e.g., Klingenberg conversion
- ✓ Efficient gas-fired CHPs
- ✓ New smart energy and heat solutions
- ✓ Partnerships for CO_2 -free industry processes (e.g. steel, cement)

- Electrification of industrial processes and transport
- ✓ Life Cycle Analysis and Environmental Performance Declarations
- ✓ Cooperate with partners, suppliers cities and customers to set joint CO₂ targets

Vattenfall absolute CO₂ 2015: 84 MT, 2016: 23 MT

*Source: Company reports 2015 – RWE, Enel, E.ON, EDP, EnBW, Iberdrola, DONG, Fortum, Centrica, EDF, Statkraft



OUR CONTRIBUTION TO UN'S SUSTAINABLE DEVELOPMENT GOALS

Vattenfall focuses on six of the 17 sustainable development goals on a group level. On a local level, we are also contributing to five additional sustainable development goals¹.



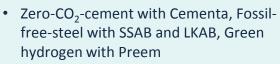
- Vattenfall operates 2.8 GW of renewables capacity as of H1 2017
- Strategic target to commission 2.3 GW of new renewables capacity 2016-2020



- Enabling our customers to produce and consume their own renewable energy
- Launch of Powerpeers to trade locally generated renewable electricity



Charging solutions for electric vehicles





 City partnerships with Uppsala, Berlin, Hamburg and Amsterdam to help achieve ambitious climate goals



- Vattenfall aims at being climate neutral by 2050 and by 2030 in the Nordics
- Contributing to electrification of transportation, heating and the industry
- 17 PARTINERSHIPS FOR THE GOALS

VATTENFALL

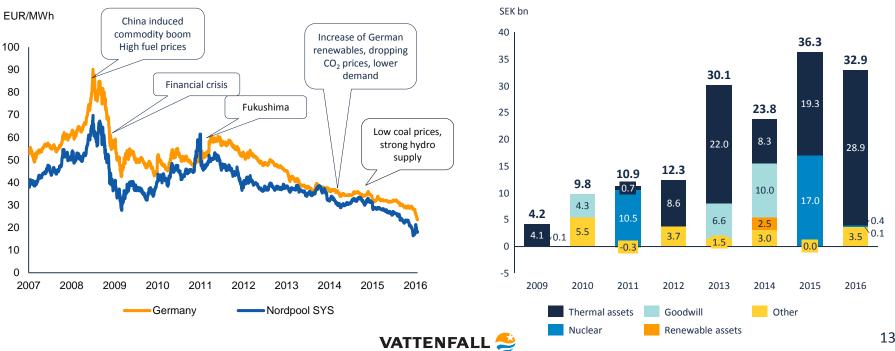
• Vattenfall is active in partnerships with both cities and corporates



CHALLENGING MARKET CONDITIONS, BUT...

Challenging market conditions with depressed electricity prices has lead to impairments

Front year contract price (EUR/MWh)

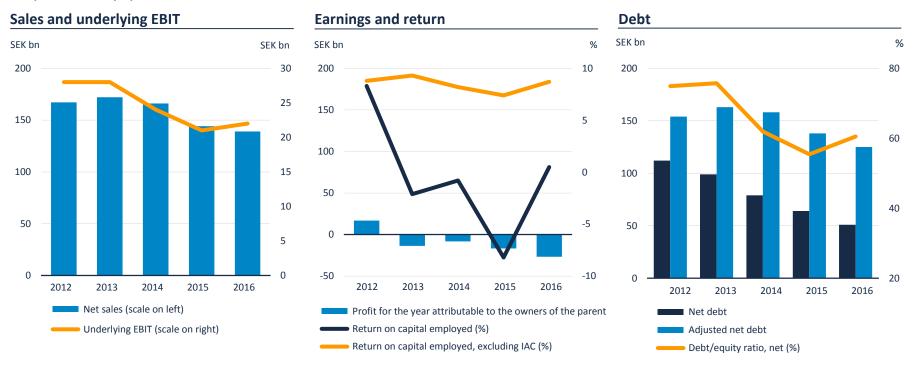


Total impairments of SEK 160.3bn

Source: FFX

...STABILISED FINANCIAL DEVELOPMENT

After several years of challenging market conditions leading to recognition of substantial impairment losses and pressure on profitability, profit levels have now stabilised





UNDERLYING OPERATING PROFIT PER OPERATING SEGMENT

SEK bn	FY 2016 ¹	FY 2015 ¹
Customers & Solutions	1.8	1.4
Power Generation ²	11.4	12.4
Wind	0.9	1.5
Heat	3.2	1.8
Distribution	4.9	5.5
Other ³	-0.5	-1.9
Eliminations	-0.0	-0.0
Total	21.7	20.5

1) Pertains to continuing operations, i.e., excluding lignite operations

2) Power Generation consists of Business Area Generation and Business Area Markets

3) "Other" pertains mainly to all Staff functions, including Treasury and Shared Service Centres

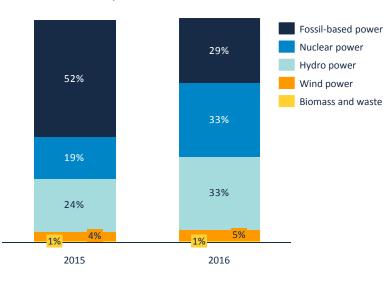
- Customers & Solutions: Lower sales and administration costs
- Power Generation: Lower production margins resulting from average lower prices achieved
 - Wind: Lower net sales from existing assets combined with higher depreciation and higher OPEX
 - Heat: Higher gross margin mainly explained by lower fuel costs
 - Distribution: Change in underlying EBIT impacted by the divested network operation in Hamburg



A NEW VATTENFALL IS TAKING SHAPE

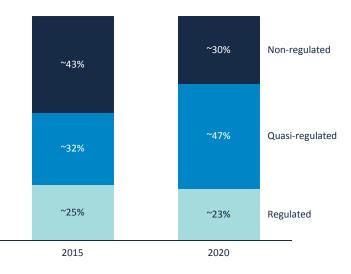
A new Vattenfall is taking shape, both from a strategic and financial perspective.

Vattenfall has moved from a heavy fossilbased production towards a more sustainable portfolio in 2016



Vattenfall production mix 2015-2016

... and are further moving towards more quasi-regulated business with more limited risk exposure going forward



Vattenfall future value pools - EBITDA

